UNITED STATES PATENT AND TRADEMARK OFFICE **CERTIFICATE OF CORRECTION**

PATENT NO.

: 7,064,842 B1

Page 1 of 1

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APPLICATION NO.: 09/480506

INVENTOR(S)

: June 20, 2006 : Eiji Yamamoto

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title page of the patent, in item (75) Inventors, delete "June Hane, Hachioji (JP); Iwao Komazaki, Urawa (JP)"

Column 36, lines 22 to 30, delete the entire paragraphs:

"(Corresponding Embodiment of Invention and its Operation and Effect)

The embodiments and the operations and effects of the inventions of claims 4 and 5 described latter correspond to the first embodiment and the operation and effect of this embodiment.

(Corresponding Embodiment of Invention)

The invention of claim 6 described latter corresponds to the first embodiment of this invention."

Column 37, line 21, delete "(Corresponding Embodiment of Invention"; line 22, delete "(Operation and Effect)"; line 34, delete "(Corresponding Embodiment of Invention".

Column 38, line 10, delete "(Operation and Effect)".

Column 39, lines 11 and 12, "it should be noted that light source" should read --it should be noted that return light noise is generated by the light that returns to the light source--; lines 15 and 16, "between the scale and light interference pattern" should read --between the scale and light source is changed, a change in the pitch of the diffraction interference pattern--; between lines 50 and 51, insert the entire paragraph:

-- The second light beam that has been split by the beam-splitting optical element is irradiated on the second scale pattern, which may have a uniform reflectance, transmissivity or diffraction efficiency.--.

Signed and Sealed this

Twenty-second Day of May, 2007

JON W. DUDAS Director of the United States Patent and Trademark Office